

MLCPAC STANDARD SPECIFICATION 041PRODUCTION CONTROL, GANTT BAR CHART**1 GENERAL**

- 1.1 The contractor shall develop a meaningful, accurate, and complete production control chart that shall be utilized throughout Coast Guard drydock, dockside, and emergency repair availabilities. All preparations, work, and testing shall be shown on this production chart to avoid material and resource scheduling conflicts, increased costs, and late contract completion.

**2 REFERENCES**

Coast Guard Drawings: None

Enclosed Figures: Sample Dockside Availability Gantt Chart

Applicable Documents: None

**3 REQUIREMENTS****3.1 Format and Content**

3.1.1 A sample dockside availability Gantt chart (letter size) is enclosed with this specification for information. Provided that the requirements below are satisfied, the contractor may modify the Gantt chart format and layout as desired.

3.1.2 The following information shall be included on the first sheet of the Gantt chart:

- a. Cutter's name and number.
- b. Contract number.
- c. Contractor's name and yard location.
- d. Date of the latest Gantt chart revision.
- e. List of subcontractors (if used) with identifying work item number(s), local business address, telephone number, and contact personnel.
- f. Area for notes.

3.1.3 The master reproducible copy of the Gantt chart shall be hand drawn with soft lead pencil or generated by computer software. The contractor shall select a paper size appropriate for the complexity of the project, but no more than one dimension may exceed 36 inches. The Gantt chart shall have a calendar scale along the top edge with vertical lines extending downward to demarcate each workday. The Gantt chart may extend across multiple sheets of paper provided that the calendar scale is included on each sheet. Lettering on submitted copies shall be legible and no less than  $\frac{1}{16}$  inch tall.

3.1.4 Milestones shall be scheduled and plotted as zero duration entries against the calendar scale. Milestones shall be shown for the following events:

- a. Cutter arrival.
- b. Start availability (if different from cutter arrival).
- c. Drydock (if drydocking is to be performed)

- d. Refloat (if drydocking is to be performed)
- e. Completion of each work item specification.
- f. Completion of all production work required for dock trials (if dock trials are to be performed).
- g. Completion of all production work and dockside testing required for sea trials (if sea trials are to be performed).
- h. Completion of availability.
- i. Cutter departure (if different than completion of availability).

3.1.5 Each work item shall be broken down into a series of major tasks that are plotted as horizontal bars against the calendar scale. The left edge of each bar shall be aligned with the scheduled start time of the associated task. Similarly, the right edge shall be aligned with the expected time of completion. Each entry shall be labeled with the work item number, a meaningful description, the shift(s) during which the task will be worked, and the lead shop or organization responsible for completing the task.

3.1.6 The following items shall also be entered as tasks on the Gantt chart:

- a. Contractor and Government furnished material delivery.
- b. Government witnessed operational tests, inspections, and dockside trials.
- c. Arrival and progress conferences.
- d. Ship's Force maintenance, work, and testing.

3.1.7 The interdependencies between tasks (scheduling logic) may be shown by connecting the schedule bars and milestone symbols with flow arrows. Such information shall be mandatory when required by the invoking specification.

3.1.8 The progress of each task shall be shown, either graphically as a progress bar or numerically as a percentage. Completed items may be removed from the Gantt chart after they have been posted for at least one progress conference.

## 3.2 Submittals

3.2.1 The initial submittal (2 copies) shall be delivered to the Contracting Officer no later than the date required by the invoking specification. Subsequent submittals shall be made no less than 24 hours prior to each progress conference when practicable. Progress conferences shall be held at least once per week throughout the availability and shall be held more frequently when scheduled completion is jeopardized by significant changes in work sequencing, expanded scope, or major delays.

3.2.2 Submittals constitute the contractor's estimates and plans for accomplishment of the work package. The Coast Guard will inspect and accept the submittals for compliance with the work. By doing so, the Coast Guard does not necessarily accept the content or conclusions of the submittals. The Contractor retains full responsibility for proper and timely progressing, labor loading, and all other management of the ship's repair package.

3.2.3 The Contractor shall supply updated copies of the Gantt chart to the following organizations throughout the availability:

- a. Cutter's commanding officer (2 copies)
- b. Naval Engineering Support Unit (NESU) port engineer servicing the contract (1 copy)
- c. Contracting Officer (1 copy)

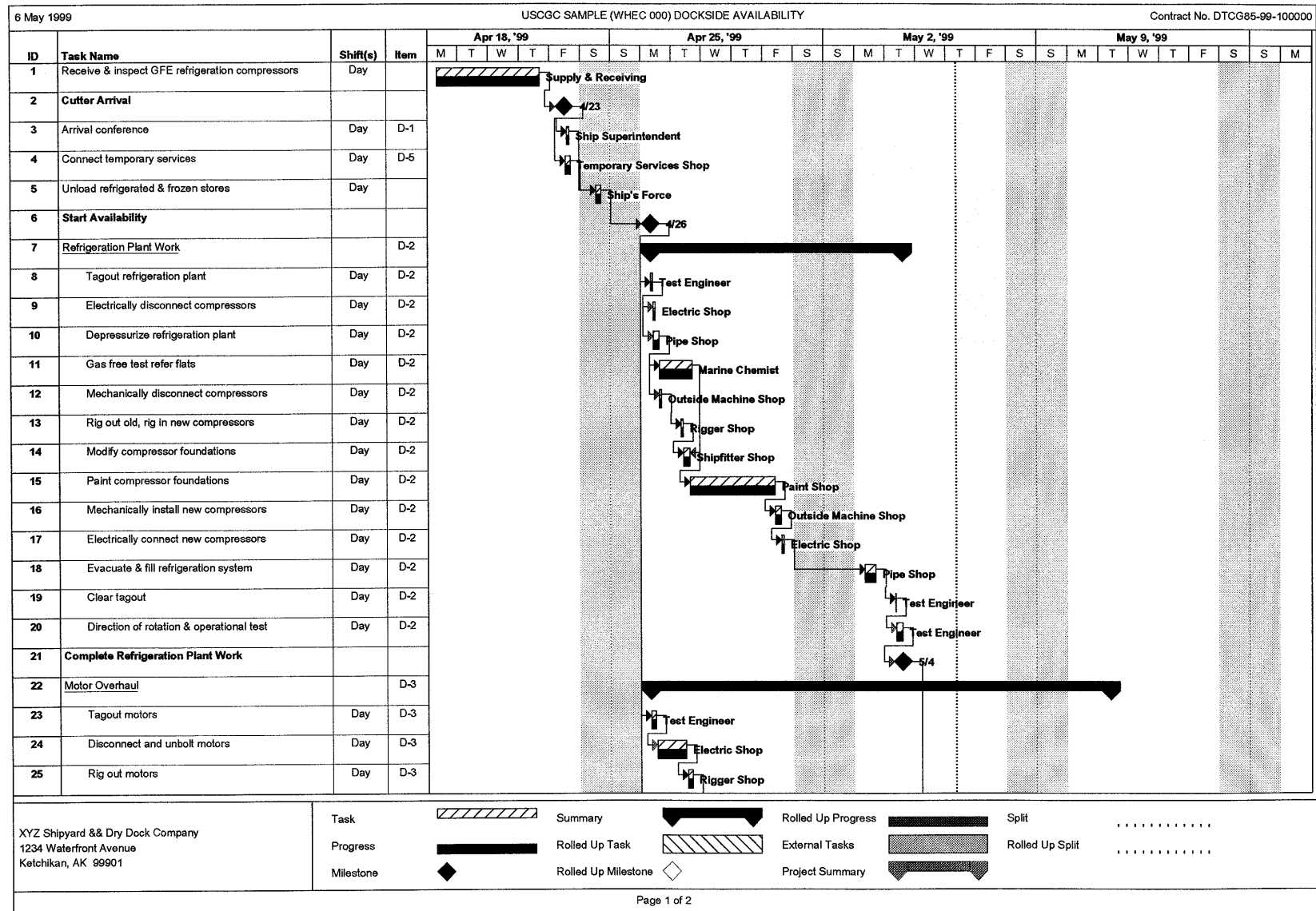
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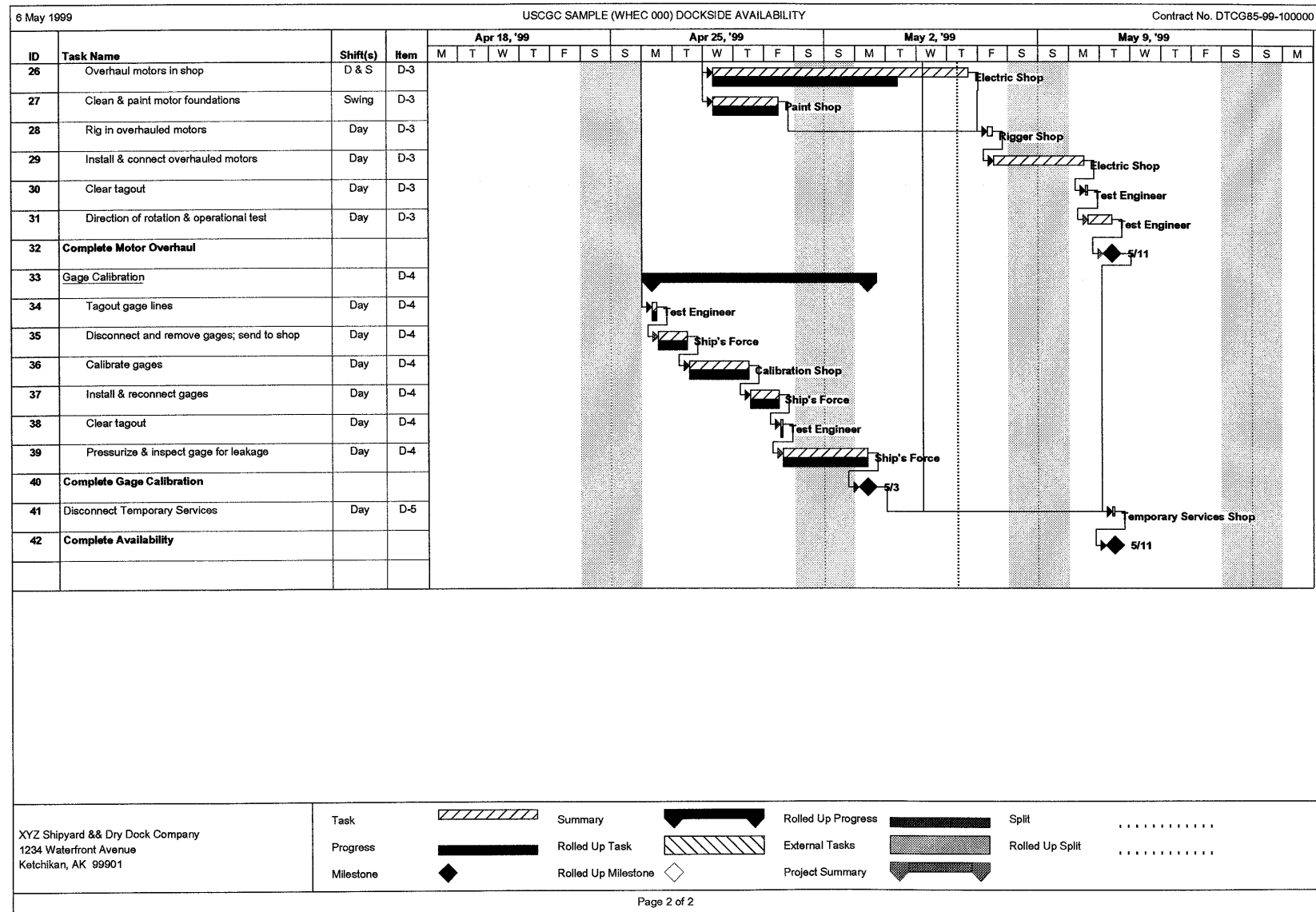
## USCGC SAMPLE (WHEC 000) DOCKSIDE AVAILABILITY

PRIME CONTRACTOR		SUBCONTRACTORS	
XYZ Shipyard & Dry Dock Company 1234 Waterfront Avenue Ketchikan, AK 99901		E & M Motor Shop 789 1 <sup>st</sup> Street Ketchikan, AK 99901	GageMaster Laboratory 3456 18 <sup>th</sup> Avenue Seattle, WA 98117
J.R. Doe Ship Superintendent (907) 123-4567 (cellular)	Item D-3	K.C. Jones Planner (907) 147-2710	Item D-4 P.A. Allen Field Service Technician (206) 181-2078 (cellular)
R.J. Smith Mechanical General Foreman (907) 123-4544 (cellular)			
K.B. Johnson Electrical General Foreman (907) 123-4531 (cellular)			
D.A. Brown Structural General Foreman (907) 123-4573 (cellular)			
<b>Notes</b> 1. Poor weather delayed delivery of new motor bearings for Item D-3 two days. Working two shifts per day to complete motor overhaul as originally scheduled.		<b>Quarterdeck</b> (907) 135-2718  <b>Ship's Office (Dockside)</b> (907) 135-2720 (fax 2721)  <b>Port Engineer (Dockside)</b> (907) 135-2722 (fax 2724)  <b>Contracting Officer (Dockside)</b> (907) 135-2723 (fax 2724)	
Next Progress Meeting: NONE		Next Key Event: COMPLETE SHIP (MAY 11 <sup>TH</sup> )	
		GANTT CHART COVER (2 pages attached)	

Sample Dockside Availability Gantt Chart



Sample Dockside Availability Gantt Chart (continued)



Sample Dockside Availability Gantt Chart (continued)